L Number	Hits	Search Text	DB	Time stamp
-	()	boucle\$1 and (bi adj3 filament\$3) and (aramid\$1 or keylar or nomex)	USPAT	2003 - 01 , 21 11:46
-	()	boucle\$1 and (bi adj3 filament\$3) and (aramid\$1 or kevlar or nomex)	USPAT; EPO; JPO; DERWENT	2003/01/07 12:12
	156	boucle\$1	USPAT; EPO; JPO; DERWENT	2003/01/07 12:15
	()	(*4120914" *4198494" *5299602	USPAT	2003/01/09 17:02
-	46	("4120914" "4198494" "5299602" "5305593" "5336734" "5356666" "5389326" "5468537") and filament	USPAT	2003/01/21 13/57
	33		USPAT	2003/01/07 13/23
	17	5323815'	USPAT	2003/01/07 13 15
•	6	marcanada	USPAT	2003/01/07 13-23
-	l	"4141082",PN.	USPAT	2003/01/07 13 27
	1	"4287608".PN.	USPAT	2003/01/07 13:27
•	1	"4662006".PN.	USPAT	2003/01/07 13:32
	1	"5131097".PN.	USPAT	2003/01/07 13:32
-	1	"5136723".PN.	USPAT	2003/01/07 13:32
-	1	"5189737".PN.	USPAT	2003/01/07 13:32
-	1	"5198280",PN.	USPAT	2003/01/07 13:32
-	1	5202086°,PN.	USPAT	2003;01:07 13:32
-	1	"5189737",PX.	USPAT	2003/01/07 13:33
	1	"5202086 .PN.	USPAT	2003,01,07 13:33
-	7.1	"5299602",PN:	USPAT	2003/01/07 13:33
		4120914 4198494 5299602 5305593 5336734 5356666 5389326 5468537	USPAT	2003 01 08 17:29
	٠,	(4120914 4198494 5299602 5305593 5336734 5356666 5389326 5468537 jund (mit adjuct) or boucle)	USPAT	2003 01 08
	92	((air adj jet) or boucle) and (filament) and (aramid\$1 or kevlar or nomex) and (weave\$3 or woven\$3)	USPAT	2003 01 08 17:40
	28	((air adj jet) or boucle) and ((multi-filament) or (multifilament) or (bifilament) or (bi-filament)) and (aramid\$1 or keylar or nomex) and (weave\$3 or	USPAT	2003-01-08 17:41

- 1	5.397627.pn.	USPAT	2003 01 09 09:46
- 11	5397627"	USPAT	2003 01:09 09:46
- ()	"5397627" and (MPIA or TEIJINCONEX or (poly adj- metaphenylene adj isophthalamide)	USPAT	2003/01/09
175	(MPIA or TEIJINCONEX or (poly adj metaphenylene adj isophthalamide)	USPAT	2003, 01 09
. ()	(MPIA or TEIJINCONEN or (poly adj metaphenylene adj isophthalamide) or (para adj	USPAT	2003 01 09 09 47
- 453	aramid\$1) or (para-aramid\$1)) and "5397627" (MPIA or TEIJINCONEX or (poly ad)	USPAT	2003/01/09
	metaphenylene adj isophthalamide) or (para adj aramid\$1) or (para-aramid\$1))		00:48
- 278	(MPIA or TEIJINCONEX or (poly adj metaphenylene adj isophthalamide) or (meta adj	USPAT	2003/01/09 09:48
- 110	aramid\$1) or (meta-aramid\$1)) (MPIA or TEIJINCONEX or (poly adj	USPAT	2003-01709
	metaphenylene adj isophthalamide) or (meta adj aramid\$1) or (meta-aramid\$1)) and (PPTA or TWARON or (poly adj poraphenylene adj terephthalamide) or (para adj aramid\$1) or (para-aramid\$1))		15:36
- 11	(MPIA or TEIJINCONEX or (poly adj metaphenylene adj isophthalamide) or (meta adj aramid\$1) or (meta-aramid\$1)) and (PPTA or TWAFON or (poly adj paraphenylene adj terephthalamide) or (para adj aramid\$1) or	USPAT	2003/01/09 09:49
- ()	(para-aramid\$1)) and entangl\$4 (MPIA or TEIJINCONEN or (poly ad) metaphenylene adj isophthalamide) or (meta adj aramid\$1) or (meta-aramid\$1)) and (PPTA or TWARON or (poly adj paraphenylene adj terephthalamide) or (para adj aramid\$1) or (para-aramid\$1)) and ((multi-component\$1) or (multi adj component) or (bi-component\$1) or (bi adj component))	USPAT	2003/01-09 10:05
- 190	(MPIA or TEIJINCONEN or (poly adj metaphenylene adj isophthalamide) or (meta adj aramid\$1) or (meta-aramid\$1)) and (PPTA or TWAFON or KEVLAF or (poly adj paraphenylene adj terephthalamide) or (para adj aramid\$1) or (para-aramid\$1))	USPAT	2003/01/09 17:00
- O	(MPIA or TEIJINCONEN or (poly adj metaphenylene adj isophthalamide) or (meta adj ar imid\$1) or imeta aramid\$1)) and (PPTA or TWARON or KEALAR or (poly adj paraphenylene adj to epit halamide or (para adj), ramid\$1) or (para aramid\$1)) and (b) adj component\$1) or (b) component\$1) or (m. ilit adj) component\$1) or (multi-component\$1))	USPAT	2003/01/09 15:38
76	(MPIA or TEIJINCONEX or (poly adj metaphenylene adj isophthalamide) or (meta adj aramid\$1) or (meta-aramid\$1)] and (PPTA or TWAEON or KEVLAE or (poly adj paraphenylene adj terephthalamide) or (para adj aramid\$1) or	USPAT	2003/01/09 17:03

3	(MPIA or TEIJINCONEX or (poly adj metaphenylene adj isophthalamide) or (meta adj aramid\$1) or (meta-aramid\$1)) and (PPTA or TWARON or KEVLAR or (poly adj paraphenylene adj terephthalamide) or (para adj aramid\$1) or (para-aramid\$1)) and (C4120914 - 4198494" "5299602" "5305593" "5336734 "5356666"	USPAT	2003 01, 15 10:40
1	"5389326" "5468537")) 4120914.pn.	USPAT	2003; 01-09 17:05
1	4120914.pn.	USPAT	2003; 01-10 09:39
U	"B378760".PN.	USPAT	2003/01/10 08:58
()	B378760°,PX.	USPAT	2003/01/10 08:58
1	"3817941".PN.	USPAT	2003/01/10 08:58
22	"4120914"	USPAT	2003/01/10 09:39
454	(MPIA or TELJINCONEX or (poly adj metaphenylene adj isophthalamide) or (para adj aramid\$1) or (para-aramid\$1))	USPAT	2003/01/15 10:34
1987	428/921	USPAT	2003/01/15 10:40
1663	(428/921).CCLS.	USPAT	2003/01/15 10:41
2	(MPIA or TEIJINCONEX or (poly adj metaphenylene adj isophthalamide) or (meta adj aramid\$1) or (meta-aramid\$1)) and (PPTA or TWARON or KEVLAR or (poly adj paraphenylene adj terephthalamide) or (para adj aramid\$1) or (para-aramid\$1)) and ((428/921).CCLS.)	USPAT	2003/01/15 10:50
76	(MPIA or TEIJINCONEX or (poly adj metaphenylene adj isophthalamide) or (meta adj aramid\$1) or (meta-aramid\$1)) and (PPTA or TWARON or KEVLAR or (poly adj paraphenylene adj terephthalamide) or (para adj aramid\$1) or (para-aramid\$1)) and filament	USPAT	2003/01/15 10:50
76	(MPIA or TEIJINCONEX or (poly adj metaphenylene adj isophthalamide) or (meta adj aramid\$1) or (meta-aramid\$1)) and (PPTA or TWARON or KEVLAF or (poly adj paraphenylene adj terephthalamide) or (para adj aramid\$1) or (para-aramid\$1)) and filament\$2	USPAT	2003/01 15 16:36
1	3767756 (PN)	USPAT	2003 01 15 10:59
1	3869429 .PN	USPAT	2003 01 15 10:59
1	#[209] 4 P]]	U×PAT	2003 01 15 10:59
1	4198494 .PX.	USPAT	2003 01 15 10:59
1	74228218°,PW	USPAT	2003 01 15 10:59
:	Gushis PK	USPAT	2003 001 15

1	"4888091".PN.	USPAT	2003/01/15 11/00
42	(264/904).CCLS.	USPAT	2003 - 01 / 15 = 16 36
40	(MPIA or (m adj3 aramid) or (m-aramid) or TEL/INCONEX or (poly adj3 metaphenylene adj3 isophthalamide) or (polymetaphenylene adj2 isophthalamide)) and ((para adj aramid\$1) or (para-aramid\$1) or (p-aramid) or (p adj2 aramid) or (KEVLAR) or twaron or PPTA or (poly adj3 paraphenylene adj2 terphthalamide)) and filament\$3	USPAT	2003 01, 21 11 54
290	(Nomex or MPIA or (m adj3 aramid) or (m-aramid) or TEIJINCONEX or (poly adj3 metaphenylene adj3 isophthalamide) or (polymetaphenylene adj2 isophthalamide)) and ((para adj aramid\$1) or (para-aramid\$1) or (p-aramid) or (p adj2 aramid) or (KEVLAR) or twaron or PPTA or (poly adj3 paraphenylene adj2 terphthalamide)) and filament\$3	USPAT	2003/01/16 09:14
216	(Nomex or MPIA or (m adj3 aramid) or (m-aramid) or TELJINCONEX or (poly adj3 metaphenylene adj3 isophthalamide) or (polymetaphenylene adj? isophthalamide)) and ((para adj aramid\$1) or (para-aramid\$1) or (p-aramid) or (p adj2 aramid) or (KEVLAR) or twaron or PPTA or (poly adj3 paraphenylene adj2 terphthalamide)) and filament\$3 and yarn\$3	USPAT	2003/01/22 09:33
1	4159618.pn.	USPAT	2003/01/16 10:18
1	"2369876".PN.	USPAT	2003/01/16 10:11
1	"3843587".PN.	USPAT	2003/01/16 10:11
1	"3881977".PN.	USPAT	2003/01/16 10:11
1	140566511.PN.	USPAT	2003/01/16 10:11
727	Nomex and Keylar	USPAT	2003/01/16 10:18
224	Nomex and Keylar and yarn and (filament\$2 or continuous)	USPAT	2003/01/16 14:14
40	Nomex same Kevlar same yarn\$2 same (filament\$2 or continuous)	USPAT	2003/01/16 10:19
4.3	Nomex same Keylar same varu\$2 same mlament\$2 or continuous:	USPAT: EPO: JPO: DERWENT	2003 01 16 1.5(**)
.28	(72915)	USPAT: EPO: JPO: DEEWENT	2003-01-16 15.41
7	aramid and (partially adj2 orient\$3 adj3 (fiber\$2 or filament\$3))	USPAT	2003; 01:16 - 13:54
16	"9104855" "9214608"	USPAT: EPO: JPO: DERWENT	2003/01/16 13:56
7.5	0207422 0310199 3624115	USPAT.	2003 01 16

192	(57, 244).CCLS.	USPAT	2003 01 16 14:38
3	(Nomex or MPIA or (m adj3 aramid) or (m-aramid) or TELJINCONEX or (poly adj3 metaphenylene adj3 isophthalamide) or (polymetaphenylene adj2 isophthalamide)) and ((para adj aramid\$1) or (para-aramid\$1) or (p-aramid) or (p adj2 aramid) or (KEVLAR) or twaron or PPTA or (poly adj3 paraphenylene adj2 terphthalamide)) and ((57/244).CCLS.)	USPAT	2003/01/21 14:17
1	5397627.pn.	USPAT	2003 (01/16) 15:26
()	boucle\$1 and (aramid\$1 or keylar or nomex)	USPAT	2003 · 01 · 21 - 11:46
()	(MPIA or (m. adj3 aramid) or (m. aramid) or TEIJINCONEX or (poly adj3 metaphenylene adj3 isophthalamide) or (polymetaphenylene adj2 isophthalamide)) and ((para adj aramid\$1) or (para-aramid\$1) or (p-aramid) or (p. adj2 aramid) or (KEVLAE) or twaron or PPTA or (poly adj3	USPAT	2003/01/21 14:25
8	paraphenylene adj2 terphthalamide)) and boucle (MPIA or (m.adj3 aramid) or (m-aramid) or TEIJINCONEX or (poly adj3 metaphenylene adj3 isophthalamide) or (polymetaphenylene adj2 isophthalamide)) and ((para adj aramid\$1) or (para-aramid\$1) or (mataphenylene adj2 terphthalamide)) and entangl\$3	USPAT	2003/01/21 11:48
1	5399418.pn.	USPAT	2003/01/21 11:55
1	"4923741".PN.	USPAT	2003/01/21 11:54
1	5014755 CPN.	USPAT	2003 (01) 21 11:55
29	"5399418"	USPAT	2003/01/21 11:55
()	"5399418" and (MPIA or (m adj3 aramid) or (m-aramid) or TEIJINCONEX or (poly adj3 metaphenylene adj3 isophthalamide) or (polymetaphenylene adj2 isophthalamide)) and ((para adj aramid\$1) or (para-aramid\$1) or (p-aramid) or (p adj2 aramid) or (KEVLAR) or twaron or PPTA or (poly adj3 paraphenylene adj2 terphthalamide))	USPAT	2003/01/21 11:56
: 27	(MPIA or (m. ad)3 aramid) or (m. aramid) or TEL/INCONEX or (poly ad)3 metaphenylene ad)3 isophthalamide) or (poly metaphenylene ad)2 isophthalamide)) and ((para. ad) aramid\$1) or (para. atamid\$1) or (p. aramid) or (p. ad)2 aramid) or (KEVLAR) or twaron or PPTA or (poly ad)3 paraphenylene ad)2 terphthalamide))	USPAT	2003 01 21 11 57
(nC)	(MPIA or trivial) aramid) or tin aramid) or TELUNCONEX or (poly adv.) metaphenylene adi.3 (sophthalamide) or tpolymetaphenylene adv.2 (sophthalamide)) and ((para ad) aramid\$1) or the constant of the constan	USPAT	2003 01 21 14/22

	1	4120914.pn.	USPAT	2003 01 21 13:41
	51	(4120914 4198494 5299602 5305593 5336734 5356666 5389326 5468537) and (demer\$3 or tex\$3)	USPAT	2003 01 21 13:58
	1	(4120914 "4198494" 5299602 5305593" 5336734" 5356666" 5389326" "5468537") and (denier\$3 or tex\$3) and (MPIA or (m adj3 aramid) or (m aramid) or TELJINCONEX or (poly adj3 metaphenylene adj3 isophthalamide) or (polymetaphenylene adj2 isophthalamide)) and (tpara adj aramid\$1) or (para-aramid\$1) or (p-aramid) or (p adj2 aramid) or (KEVLAR) or twaron or PPTA or (poly adj3 paraphenylene adj2 terphthalamide))	USPAT	2003;01-21 14:03
	22	"4120914"	USPAT	2003/01/21 14:03
-	O	"B378760".PN.	USPAT	2003/01/21 14/03
-	O	"B378760".PN.	USPAT	2003/01/21 14/03
-	1	3817941°,PN.	USPAT	2003/01/21 14/03
	1	3869429 IPN.	USPAT	2003/01/21 14/03
-	1	"3869430",PN.	USPAT	2003/01/21 14:03
-	4	"6146759"	USPAT	2003/01/21 14:18
-	1	"3366001".PN.	USPAT	2003/01/21 14:20
	1	"3439491".PN.	USPAT	2003/01/21 14:21
	1	"3729920",PN.	USPAT	2003/01/21
-	1	"3828544".PN.	USPAT	14:21 -2003/01/21 -14:21
-	81279	"1593" "048"	EPO; JPO; DERWENT	2003/01/21
		57-59585	DERWENT	14:24
		58 100323		
		60-107608		
		61, 261330		
		[[4] 04]		

()	57-59585	EPO; JPO; DERWENT	2003/01/21 14:24
	58-100323		
	60 107608		
	61-261330		
	1-141041		
1.2	5759585	EPO; JPO;	2003/01/21
	58100323	DERWENT	14:24
	60107608"		
	"61261330"		
	"1141041"		
1 4	(MPIA or (m adj3 aramid) or (m-aramid) or TEIJINCONEX or (poly adj3 metaphenylene adj3 isophthalamide) or (polymetaphenylene adj2 isophthalamide)) and ((para adj aramid\$1) or (para-aramid\$1) or (p-aramid) or (p adj2 aramid) or (KEVLAR) or twaron or PPTA or (poly adj3	EPO: JPO: DERWENT	2003/01/21 14:29
127	paraphenylene adj2 terphthalamide)) (MPIA or (m adj3 aramid) or (m-aramid) or TEIJINCONEX or (poly adj3 metaphenylene adj3 isophthalamide) or (polymetaphenylene adj2 isophthalamide)) and ((para-adj aramid\$1) or (para-aramid\$1) or (p-aramid) or (p adj2 aramid) or (KEVLAR) or twaron or PPTA or (poly adj3	USPAT	2003/01/21 14:29
60	paraphenylene adj2 terphthalamide)) (MPIA or (m adj3 aramid) or (m-aramid) or TEIJINCONEX or (poly adj3 metaphenylene adj3 isophthalamide) or (polymetaphenylene adj2 isophthalamide)) and ((para adj aramid\$1) or (para-aramid\$1) or (p-aramid) or (p adj2 aramid) or (KEVLAR) or twaron or PPTA or (poly adj3 paraphenylene adj2 terphthalamide)) and (demer\$3 or decitex\$3 or dix\$5 or (linear adj2)	USPAT	2003/01/21 15:18
	densit\$3)(MPIA or (in adia) araimid) or (in araimid) or TELUNCONEX or (poly adia) metaphenylene adia) isophthalamide) or (polymetaphenylene adi2) isophthalamide)) same (filament\$3 same (tex\$3 or deniet\$3) or dener\$3 or dtex\$3 or decitex\$3 or (hinear adj2)	USPAT	2003 61 21 1531
38	densit\$3)) (MPIA or tm adi3 aramid) or tm aramid) or TELJINCONEX or (poly adj3 metaphenylene adi3 (1)) (1)) (1) (1) (1) (2) (1) (2) (3)	USPAT	2003 01 21 15:32

	.34	(MPIA or (m adj3 aramid) or (m aramid) or TEIJINCONEX or (poly adj3 metaphenylene adj3 isophthalamide) or (polymetaphenylene adj2 isophthalamide)) same varn\$3	USPAT	2003 01 22 09:09
	26	(MPIA or (m adj3 aramid) or (m aramid) or TEIJINCONEX or (poly adj3 metaphenylene adj3 isophthalamide) or (polymetaphenylene adj2 isophthalamide)) same yarn\$3 and (tex\$3 or decitex\$3 or denier\$3 or dtex\$3 or (linear adj3 densit\$3))	USPAT	2003 01 21 15:41
	161	(57/200).CCLS.	USPAT	2003/01/21 15:41
-	()	(MPIA or (m adj3 aramid) or (m-aramid) or TEIJINCONEX or (poly adj3 metaphenylene adj3 isophthalamide) or (polymetaphenylene adj2 isophthalamide)) and (tex\$3 or decitex\$3 or denier\$3 or dtex\$3 or (linear adj3 densit\$3)) and ((57/200).CCLS.)	USPAT	2003/01+21 15:42
-	135	(MPIA or (m adj3 aramid) or (m-aramid) or TEIJINCONEX or (poly adj3 metaphenylene adj3 isophthalamide) or (polymetaphenylene adj2 isophthalamide)) and (tex\$3 or decitex\$3 or denier\$3 or dtex\$3 or (linear adj3 densit\$3))	USPAT	2003/01/21 15:44
-	1	"4031188".PN.	USPAT	2003/01/22 - 08:52
-	1	"4081498",PN,	USPAT	2003/01/22 08:53
-	1	"4331729",PN.	USPAT	2003/01/22 08:54
-	1	"4365655".PN.	USPAT	2003/01/22 08:55
	1	"4865906",PN.	USPAT	2003/01/22 08:56
-	1	"4902561".PN.	USPAT	2003/01/22 08:57
-	1	"4987664".PN.	USPAT	2003/01/22 08:58
-	1	"4987664".PN.	USPAT	2003/01/22 08:58
-	1	"5015522".PN.	USPAT	2003/01/22 - 09:00
	1	75015322 TPM.	USPAT	2003/01/22 09:00
-	1	"5188896",PN,	USPAT	2003/01/22 (09:00)
	1	5188896 (PU	USPAT	200× 01 22 -09:01
	1	32.227.36 .PN	USPAT	200.5 01 22
	1	5015875 PN	USPAT	09:01 2002 01 22
-	1	"5356707",PN.	USPAT	09:02 -2003/01/22
-	1	15582912 .PM	USPAT	09:02 -2003:01:-22
	1	5088577 (PN)	USPAT	- 09.06 - 200.7 01 22

	3	0287080	USPAT	2003 01 22
	1	4198494°,PX.	USPAT	09:28 2003:01:22
-	1	[4282283].PN.	USPAT	09:21 2003-01-22
-	1	"4941884".PN	USPAT	09:21 2003-01-22
_	ì	15534325 .PX.	USPAT	09:22 2003-01:22
	1	5534325".PX.	USPAT	09.22 2003/01/22
-				09:22
	1	"556()99()",PN,	USPAT	2003/01/22
-	1	"5824614".PN.	USPAT	2003/01/22 09:23
=	l	"5849648".PN.	USPAT	2003/01/22
-	1	"5849648".PN.	USPAT	- 09:23 - 2003/01/22
				09:23
-	1	"5853880",PN.	USPAT	2003/01/22 09:23
-	1	"5888652".PN.	USPAT	2003/01/22
-	1	"5918453",PN.	USPAT	- 09:23 - 2003/01/22
				09:27
=	1	"5918453".PN.	USPAT	- 2003/01/22 - 09:28
-	l	"6102128".PN.	USPAT	2003/01/22 09:28
-	1	"5918453".PN.	USPAT	2003/01/22
-	1	"6102128".PN.	USPAT	09:28 2003/01/22
-	O	"2001/0034897".PN.	USPAT	09:28 2003/01/22
-	8	"19617634"	USPAT	09:28 2003/01/22
		"2104929"		09:29
		"2253194"		
-	21	19617634"	USPAT;	2003/01/22
		2104929	EPO: JPO: DERWENT	()9;3()
		2253194		
	1	keylar and nomex	JP()	2003701 22 09:30
-	1	p-aramid and m-aramid	.TP()	2003 (01 - 22 09;30
	65,201	(Nomey or MPIA or time of the or or of control or or of the	1 (21) (Т.Т.	

.374	(Nomex or MPIA or (m adj3 aramid) or (m-aramid) or TELHINCONEX or (poly adj3 metaphenylene adj3 isophthalamide) or (polymetaphenylene adj2 isophthalamide)) and yarn\$3 and (denier\$3 or dtex\$3 or decitex\$3 or tex\$3 or (linear adj2 densit\$3))	USPAT	2003 01 22 09:35
64	(Nomex or MPIA or (m adj3 aramid) or (m-aramid) or TEIJINCONEX or (poly adj3 metaphenylene adj3 isophthalamide) or (polymetaphenylene adj2 isophthalamide)) same yarn\$3 same (denier\$3 or dtex\$3 or decitex\$3 or tex\$3 or (linear adj2 densit\$3))	USPAT	2003/01/22 09:41
181	(Nomex or MPIA or (m adj3 aramid) or (m-aramid) or TEIJINCONEX or (poly adj3 metaphenylene adj3 isophthalamide) or (polymetaphenylene adj2 isophthalamide)) same (denier\$3 or dtex\$3 or decitex\$3 or tex\$3 or (linear adj2 densit\$3))	USPAT	2003; 01; 22 09;42